

Abstract

The present invention provides a pressure vessel for exerting pressure on a repair to a component made of composite materials to cure the repair in the field. The pressure vessel includes a body having a chamber for receiving the repair to the
5 component; a portal operable to permit a heating element of a heater located inside the chamber to be coupled with a power source located outside the chamber to power the heating element; and a pump operable to pressurize the chamber. By pressurizing the chamber, the pressure vessel may exert pressure on a repair placed inside the chamber that exceeds 14.7 psi, and thus, provide a better cure in the field to produce a stronger
10 repair. Furthermore, the pressure vessel may be more easily transported from one location in the field to another than an autoclave.